IN THE CLAIMS

This listing of claims replaces all prior listings:

 (currently amended) A manufacturing method of manufacturing carbon nanotubes for producing carbon nanotubes starting with a catalyst comprising the steps of:

, wherein the catalyst is arranged arranging a catalyst on [[the]] an inner face of a first electrode having a hollow[[,]];

<u>arranging</u> a second electrode is arranged so that an end thereof is positioned inside the hollow of the first electrode[f,1]; and

generating are discharge is generated between the first electrode and the second electrode in a depressurized atmosphere including only inert gas to produce double-walled carbon nanotubes.

2-4. (canceled)

- (currently amended) A manufacturing method of carbon nanotubes according to The method of claim [[4]] 1, wherein the arc discharge is performed generated in the depressurized atmosphere of helium gas, nitrogen gas, or argon gas.
- (currently amended) A manufacturing method of carbon nanotubes
 according to The method of claim 1, wherein the first electrode is a bowl-like electrode
 and the second electrode is a rod-like electrode.
- (currently amended) A manufacturing method of carbon nanotubes
 according to The method of claim 1, wherein while the arc discharge is generated
 between the first electrode and the second electrode, the double-walled carbon nanotubes
 are continuously produced.
 - 8. (withdrawn) Carbon nanotube manufacturing equipment comprising:

- a vacuum chamber having a first electrode in which a hollow is included and a catalyst is arranged on the inner face, and a second electrode arranged so that an end thereof is positioned inside the hollow of the first electrode;
- a gas introducing means for introducing inert gas into the vacuum chamber; and a voltage application means for applying a given voltage between the first electrode and the second electrode to generate are discharge.
- 9. (withdrawn) Carbon nanotube manufacturing equipment according to claim 8, wherein the inert gas is helium, nitrogen, or argon gas.
- (withdrawn) Carbon nanotube manufacturing equipment according to claim 9, wherein the first electrode is a bowl-like electrode.
- (withdrawn) Carbon nanotube manufacturing equipment according to claim 8 comprising a recovery means for recovering carbon nanotubes to be produced.
 - 12. (withdrawn) A carbon nanotube being from 1 μm to 1 mm long.
 - 13. (withdrawn) A carbon nanotube being from 1 mm to 1 cm long.
 - 14. (withdrawn) A carbon nanotube being from 1 cm to 1 m long.
 - 15. (withdrawn) A carbon nanotube being from 1 m to 1 km long..